



Missouri Department of Natural Resources

Total Maximum Daily Load Information Sheet

West Fork Niangua River

Water Body Segment at a Glance:

County:	Webster
Nearby Cities:	Marshfield
Length of impaired segment:	7 miles
Pollutant:	Low Dissolved Oxygen
Source:	None Given
Water Body ID:	1175



State Map Showing Location of Watershed

Scheduled for TMDL development: 2010

Description of the Problem

Beneficial uses of West Fork Niangua River

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Protection of Human Health (Fish Consumption)
- Whole Body Contact Recreation

Use that is impaired

- Protection of Warm Water Aquatic Life

Standards that apply

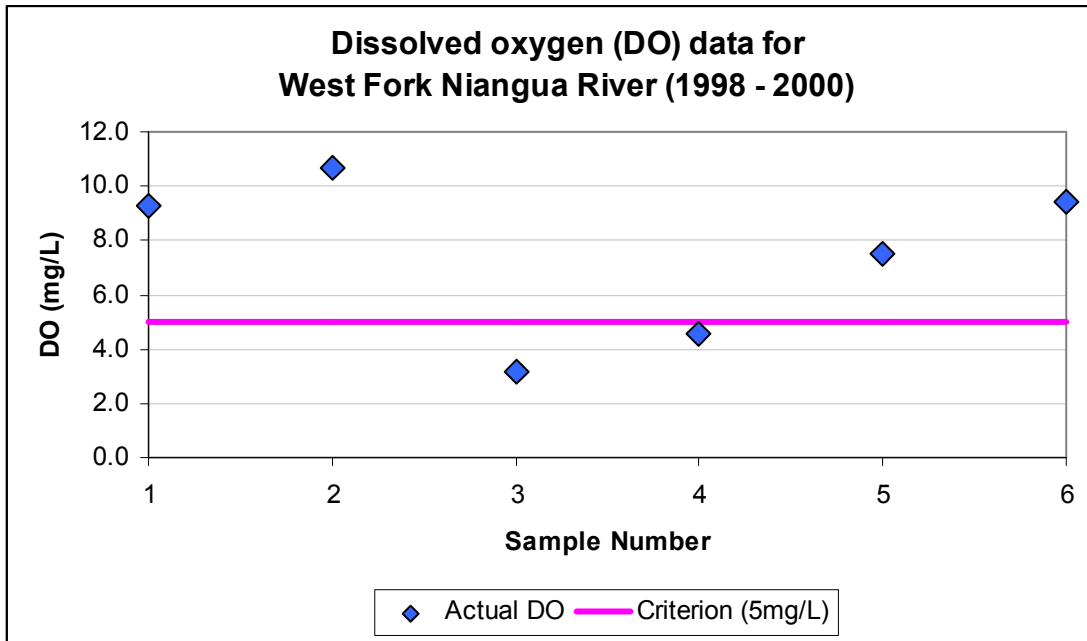
- In the Missouri Water Quality Standards, found in 10 CSR 20-7.031 Table A, the criteria for dissolved oxygen in streams is a minimum of 5.0 milligrams per liter, or parts per million.

Background information and Water Quality Data

The West Fork of the Niangua River is a rural water body that flows north to join with the East Fork and form the Niangua River.

Water quality conditions in West Fork Niangua River are not protective of aquatic life. Dissolved oxygen is important as many aquatic organisms require high levels of oxygen to survive. For dissolved oxygen, if more than 10 percent of measurements in a water body fail to meet the water quality criterion, that water body is judged to be impaired. In the case of West Fork Niangua River, two of six samples (33 percent) gathered between 1998 and 2000 did not meet the water quality

criterion. The graph, below, summarizes this data. It is not known what is causing the dissolved oxygen to be low.

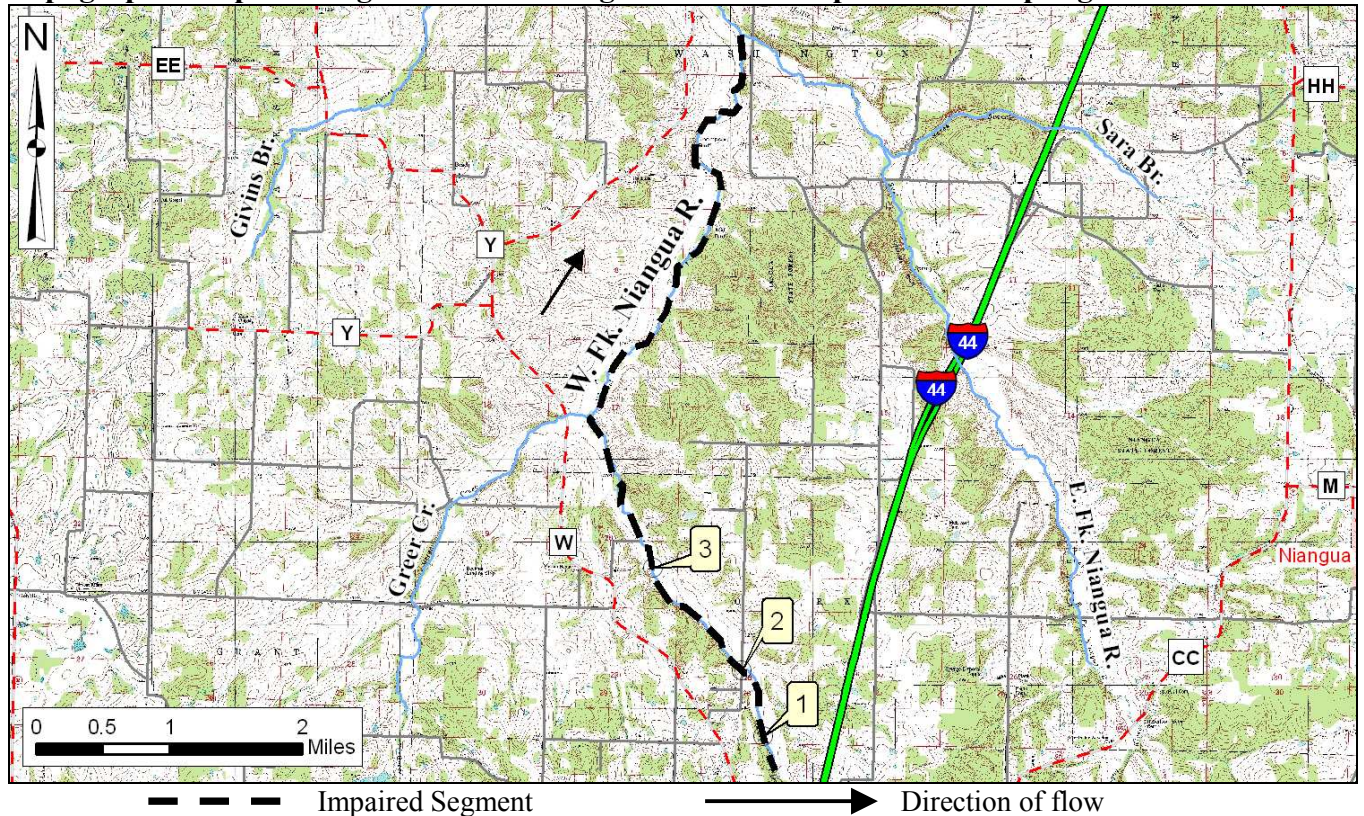


Time and date of DO samples gathered from the West Fork Niangua River, 1998-2000

Sample #	Sample Site and Location	Date Collected	Time Collected
1	Site 1 - W. Fk. Niangua R. 0.6 mi.bl. Marshfield WWTP	7/22/1998	1240
2	Site 3 - W. Fk. Niangua R. 2 mi.bl. Marshfield WWTP	7/22/1998	1300
3	Site 2 - W. Fk. Niangua R at Vineyard Rd (Co Rd 619)	7/12/2000	545
4	Site 3 - W. Fk. Niangua R. 2 mi.bl. Marshfield WWTP	7/13/2000	600
5	Site 2 - W. Fk. Niangua R at Vineyard Rd (Co Rd 619)	7/14/2000	1130
6	Site 3 - W. Fk. Niangua R. 2 mi.bl. Marshfield WWTP	7/15/2000	1145

A map of the river showing the location of the sampling sites may be found on the next page.

Topographic map showing West Fork Niangua River and department sampling sites



Sample Sites

- 1 – W. Fk. Niangua R 0.6 miles below Marshfield WWTP
- 2 – W. Fk. Niangua R at Vineyard Rd (Co Rd 619)
- 3 – W. Fk. Niangua R 2.0 miles below Marshfield WWTP

For more information call or write:

Missouri Department of Natural Resources
Water Protection Program

P.O. Box 176, Jefferson City, MO 65102-0176

1-800-361-4827 or 573-751-1300 office

573-522-9920 fax

Program Home Page: www.dnr.mo.gov/env/wpp/index.html